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ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2  
197028 MLRS, MISSILE NUMBERS 028, 005, 353, 027, 351, 352, ROUN--ETC(U)  
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JANUARY 1980

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METEOROLOGICAL DATA REPORT

197028 MLRS

Missile Nos. 028, 005, 353, 027, 351, 352

Round Nos. B-62, B-63, B-64, B-65, B-66, B-67

5 January 1980

by

White Sands Meteorological Team

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WHITE SANDS MISSILE RANGE, NEW MEXICO

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER PR 1109	2. GOVT. ACCESSION NO. (14) ERADCOM/ASL-IR-11091	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 19702B MLRS, Missile Numbers 028, 005, 353, 027, 351, 352, Round Numbers B-62, B-63, B-64, B-65, B-66, B-67, 5 January 1980		5. TYPE OF REPORT & PERIOD COVERED
7. AUTHOR(s) White Sands Meteorological Team	6. PERFORMING ORG. REPORT NUMBER	
9. PERFORMING ORGANIZATION NAME AND ADDRESS	8. CONTRACT OR GRANT NUMBER (if any) DA Task 1665702D127-02	
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Cmd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Cmd Adelphi, MD 20783	12. REPORT DATE January 1980	
	13. NUMBER OF PAGES 19	
	15. SECURITY CLASS. (of this report) UNCLASSIFIED	
16. DISTRIBUTION STATEMENT (of this Report)		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) Approved for public release; distribution unlimited.		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gather for the launching of 19702B MLRS, Missile Numbers 028, 005, 353, 027, 351 and 352, Round Numbers B-62, B-63, B-64, B-65, B-66 and B-67 are presented in tabular form.		

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## INTRODUCTION

19702B MLRS, Missile Numbers 028, 005, 353, 027, 351, and 352,  
Round Numbers B-62, B-63, B-64, B-65, B-66 and B-67, were launched from LC-33,  
White Sands Missile Range (WSMR), New Mexico, at 1101 MST  
on 5 January 1980. The scheduled launch times were 1100 MST.

## DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

### 1. Observations

#### a. Surface

(1) Standard surface observations to include pressure, temperature ( $^{\circ}\text{C}$ ), relative humidity, dew point ( $^{\circ}\text{C}$ ), density ( $\text{gm}/\text{m}^3$ ), Wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

#### b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

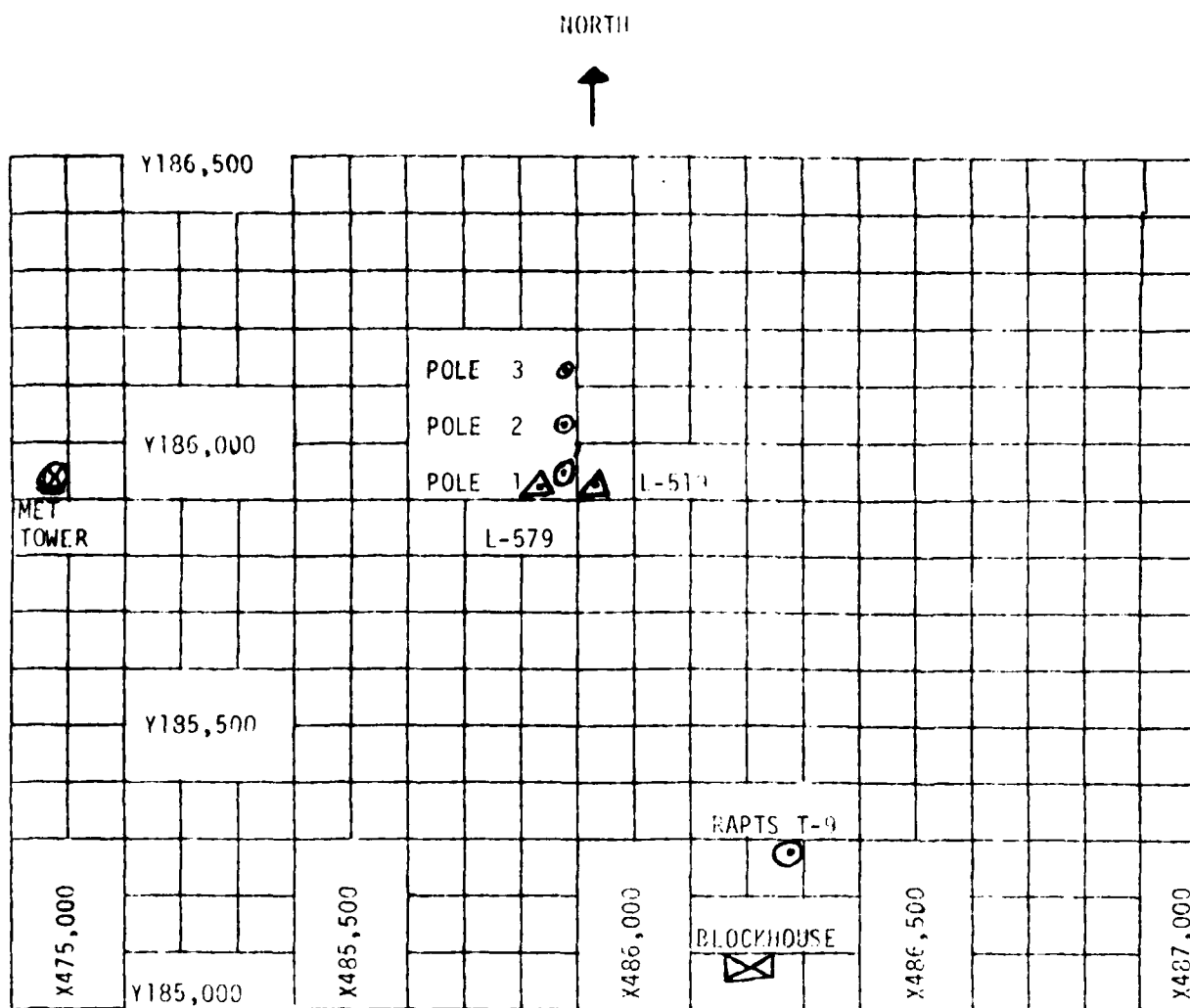
### SITE AND ALTITUDE

LC-33 2Km  
NICK 2Km

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 63,000 feet in 500-foot increments.

### SITE AND TIME

WSD 1104 MST



1. MET TOWER - 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
2. POLE ANEMOMETER - Bendix Model T-120 with E/A recorders.
  - (a) Pole #1 - 38.7 ft.
  - (b) Pole #2 - 53.0 ft.
  - (c) Pole #3 - 83.6 ft.
3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.



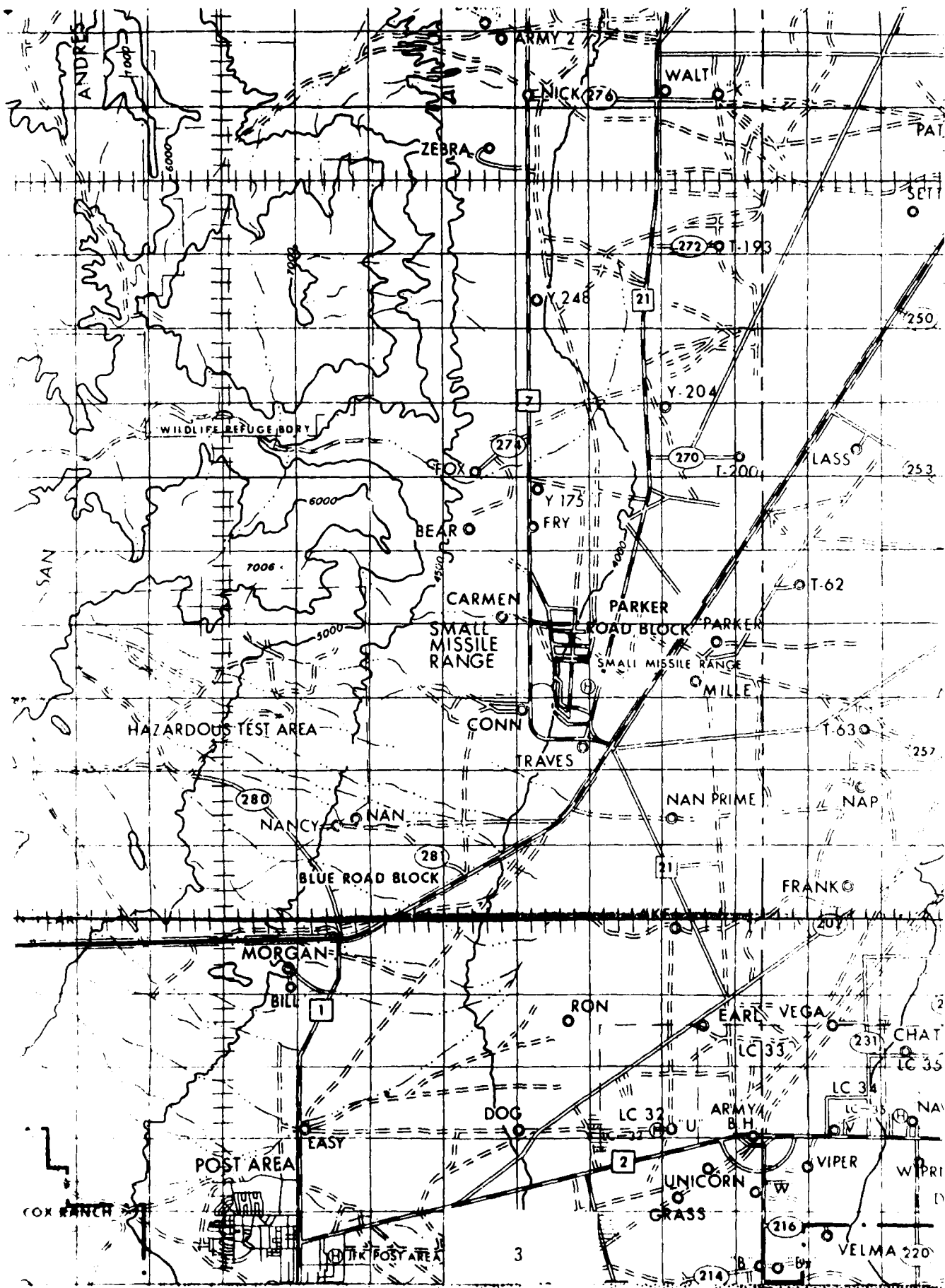


TABLE 1. Surface Observations taken at 1101 MST,  
5 January 1980, at LC-33, 19702B MLRS,  
Missile Nos. 028, 005, 353, 027, 351 and  
352, Round Nos. B-62, B-63, B-64, B-65,  
B-66 and B-67.

ELEVATION	3977.30	FT/MSL
PRESSURE	884.2	MBS
TEMPERATURE	7.9	°C
RELATIVE HUMIDITY	40	
DEW POINT	-4.7	°C
DENSITY	1096.2	GM/M <sup>3</sup>
WIND SPEED	05	KTS
WIND DIRECTION	149	DEGREES
CLOUD COVER	7	ci

TABLE 2 LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1 X485,874.29 Y185,958.90 H4018.74 88.7 ft. AGL			POLE #2 X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL			POLE #3 X485,877.29 Y186,116.06 H4063.92 83.6 ft. AGL		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	015	04	-30	353	01	-30	355	03
-20	014	03	-20	360	01	-20	355	01
-10	014	02	-10	003	01	-10		CALM
0.0	014	01	0.0	010	01	0.0		CALM
+10	018	01	+10	010	01	+10		CALM

TABLE 3 LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #2, 62 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	024	02	-30	345	03
-20	024	02	-20	342	02
-10	024	02	-10	342	02
0.0	019	02	0.0	342	02
+10	036	02	+10	360	01

LEVEL #3, 102 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #4, 202 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	355	03	-30	MISG	02
-20	012	02	-20	351	02
-10	015	01	-10	351	02
0.0	015	01	0.0	345	02
+10	012	01	+10	345	02

## PILOT BALLOON MEASURED WIND DATA

TABLE 4

RELEASED FROM LC-33 DATE 5 January 1980 TIME 1050 MST

TRACKER COORDINATES (WSTM) X= 486.037.24 Y= 182.350.16 H= 3977.30

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL XX OR FEET AGL       .

[illegible][illegible][illegible]

## PILOT BALLOON MEASURED WIND DATA

TABLE 5

RELEASED FROM LC-33

DATE 5 January 1980

TIME 1100 MST

TRACKER

COORDINATES (WSTM)

$$\lambda = 486.037.24$$
$$Y = 182,350.16$$

3977.30

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL XX OR FEET AGL.

[illegible][illegible][illegible]

## PILOT BALLOON MEASURED WIND DATA

TABLE 6

RELEASED FROM NICK DATE 5 January 1980 TIME 1101 MST

TRACKER      COORDINATES (WSTM)    X = 470.734.56      Y = 255,775.64      H = 4126.57

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL XX OR FEET AGL .

[illegible][illegible][illegible]

STATION ALTITUDE 3989.00 FEET MSL  
5 JAN. 80  
ASCENSION NO. 7

SIGNIFICANT LEVEL DATA  
0050020007  
WHITE SANDS

GEODETTIC COORDINATES  
32.40043 LAT DEG  
106.37033 LON DEG

PRESSURE	GEOMETRIC ALTITUDE	AIR TEMPERATURE	REL. HUM.	
MILLIBARS	MSL FEET	DEGREES CENTIGRADE	PERCENT	
884.9	3989.0	8.1	-6.0	36.0
872.2	4379.7	6.7	-6.3	39.0
862.2	4689.9	5.4	-8.4	36.0
850.0	5073.0	6.5	-8.2	34.0
832.6	5630.3	6.5	-7.5	36.0
813.2	6267.4	8.3	-13.9	19.0
755.6	8252.3	6.5	-15.4	19.0
700.0	10298.5	3.2	-21.7	14.0
638.4	12734.6	-4	-18.0	25.0
587.0	14927.5	-3.6	-21.7	23.0
521.6	17961.3	-9.6	-27.3	22.0
500.0	19029.5	-12.5	-26.1	31.0
486.2	19730.6	-13.9	-34.2	16.0
459.8	21116.7	-17.1	-33.7	22.0
444.8	21931.6	-19.4	-26.5	53.0
433.3	22570.8	-20.6	-29.4	45.0
423.2	23143.0	-22.4	-30.4	48.0
400.0	24495.6	-26.2	-29.9	71.0
371.2	26257.9	-30.9	-35.3	65.0
346.5	27853.7	-34.7	-37.7	74.0
335.6	28586.7	-36.0	-40.3	64.0
300.0	31116.1	-42.5	-47.0	61.0
284.7	32274.0	-45.1	-49.5	
250.0	35088.7	-52.2		
223.2	37477.0	-57.5		
213.2	38436.4	-55.0		
200.0	39774.0	-57.6		
194.4	40362.7	-59.1		
185.6	41321.8	-58.2		
150.0	45713.7	-60.9		
126.6	47625.6	-62.3		
125.8	48293.1	-64.8		
112.0	51631.5	-64.9		
100.0	53903.4	-66.5		
96.2	54675.8	-67.2		
87.2	56646.4	-64.0		
81.4	58036.1	-64.6		
75.8	59485.1	-61.2		
70.0	61103.4	-63.1		
59.8	64281.0	-66.8		

STATION ALTITUDE 3989.00 FEET MSL  
 5 JAN. 80 1104 HRS MST  
 ASCENSION NO. 7

SIGNIFICANT LEVEL DATA  
 0050020007  
 WHITE SANDS

GEODETIC COORDINATES  
 32.40043 LAT DEG  
 106.37033 LON DEG

PRESSURE GEOMETRIC ALTITUDE		TEMPERATURE	REL. HUM.
MILLIBARS	MSL FEET	AIR DEWPOINT DEGREES	PERCENT
54.6	66123.1	-60.9	
50.0	67941.0	-58.5	
47.2	69134.8	-59.7	



STATION ALTITUDE 3989.00 FEET MSL  
5 JAN. 80 1104 HRS MST  
ASCENSION NO. 7

UPPER AIR DATA  
0050020007  
WHITE SANDS

GEODETIC COORDINATES  
32.40043 LAT DEG  
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
3989.0	884.9	8.1	36.0	1094.2	653.9	360.0	1.9	1.000262
4000.0	884.3	8.1	36.1	1094.0	653.8			1.000262
4500.0	868.3	6.2	37.8	1081.2	651.6			1.000258
5000.0	852.3	6.3	34.4	1061.0	651.7			1.000252
5500.0	836.6	6.5	35.5	1040.6	652.0			1.000248
6000.0	821.3	7.5	26.1	1018.0	653.1			1.000240
6500.0	806.2	8.1	19.0	997.7	653.6			1.000232
7000.0	791.4	7.6	19.0	981.0	653.1			1.000228
7500.0	776.9	7.2	19.0	964.6	652.6			1.000224
8000.0	762.7	6.7	19.0	948.4	652.0			1.000220
8500.0	748.6	6.1	18.4	933.1	651.3			1.000216
9000.0	734.8	5.3	17.2	918.6	650.3			1.000212
9500.0	721.2	4.5	16.0	904.3	649.4			1.000208
10000.0	707.8	3.7	14.7	890.2	648.4			1.000204
10500.0	694.7	2.9	14.9	876.1	647.5			1.000201
11000.0	681.7	2.2	17.2	862.0	646.6			1.000198
11500.0	668.9	1.4	19.4	848.0	645.8			1.000196
12000.0	656.4	.7	21.7	834.4	644.9			1.000193
12500.0	644.1	-.1	23.9	820.9	644.1			1.000190
13000.0	631.9	-.8	24.8	807.6	643.2			1.000187
13500.0	620.0	-1.5	24.3	794.5	642.3			1.000184
14000.0	608.2	-2.2	23.8	781.5	641.5			1.000180
14500.0	596.7	-3.0	23.4	768.8	640.6			1.000177
15000.0	585.3	-3.7	23.0	756.4	639.7			1.000174
15500.0	574.1	-4.7	22.8	744.6	638.5			1.000171
16000.0	563.0	-5.7	22.6	732.9	637.3			1.000168
16500.0	552.1	-6.7	22.5	721.5	636.1			1.000165
17000.0	541.3	-7.7	22.3	710.3	634.9			1.000162
17500.0	531.1	-8.7	22.2	699.2	633.7			1.000160
18000.0	520.8	-9.7	22.3	688.4	632.5			1.000157
18500.0	510.6	-11.1	26.5	678.3	630.9			1.000155
19000.0	500.6	-12.4	26.1	668.5	629.2			1.000153
19500.0	490.7	-13.4	30.8	658.0	627.9			1.000149
20000.0	481.0	-14.5	20.9	647.7	626.6			1.000146
20500.0	471.4	-15.7	17.2	637.6	625.2			1.000144
21000.0	462.0	-16.8	19.3	627.7	623.8			1.000142
21500.0	452.7	-18.2	21.5	618.2	622.2			1.000141
22000.0	443.6	-19.5	36.6	608.9	620.6			1.000140
22500.0	434.6	-20.5	52.1	608.8	619.4			1.000137
23000.0	425.7	-22.0	45.9	598.8	617.6			1.000134
			47.3	590.1				

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL  
5 JAN. 80  
ASCENSION NO. 7

UPPER AIR DATA  
0050020007  
WHITE SANDS

GEODEIC COORDINATES  
32.40043 LAT DEG  
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE			KNOTS	KT	DIRECTION DEGREES (TN)	SPEED KNOTS	
23500.0	416.9	-23.4	-30.1	54.1	581.3	615.8		285.1	31.1	1.000133
24000.0	408.3	-24.8	-29.9	62.6	572.5	614.1		281.4	32.2	1.000131
24500.0	399.9	-26.2	-29.9	71.0	563.9	612.3		279.8	33.4	1.000129
25000.0	391.5	-27.5	-31.4	69.3	555.1	610.7		279.1	34.5	1.000126
25500.0	383.3	-28.9	-33.0	67.6	546.5	609.0		280.8	35.0	1.000124
26000.0	375.3	-30.2	-34.5	65.9	538.0	607.3		282.8	35.3	1.000122
26500.0	367.3	-31.5	-35.6	66.4	529.4	605.7		285.8	35.0	1.000120
27000.0	359.5	-32.7	-36.4	69.2	520.6	604.2		288.5	34.8	1.000118
27500.0	351.8	-33.9	-37.1	72.0	512.1	602.7		290.1	34.7	1.000116
28000.0	344.3	-35.0	-38.2	72.0	503.4	601.3		290.5	34.8	1.000114
28500.0	336.9	-35.8	-40.0	65.2	494.4	600.2		287.8	35.7	1.000111
29000.0	329.5	-37.1	-41.4	63.5	486.1	598.6		285.6	36.3	1.000109
29500.0	322.3	-38.3	-42.7	62.9	478.1	597.0		284.0	36.4	1.000107
30000.0	315.2	-39.6	-44.0	62.3	470.2	595.4		283.0	36.0	1.000106
30500.0	308.3	-40.9	-45.4	61.7	462.4	593.7		283.2	34.7	1.000104
31000.0	301.5	-42.2	-46.7	61.1	454.8	592.1		283.0	33.9	1.000102
31500.0	294.8	-43.4	-47.8	61.0	446.9	590.6		281.9	35.0	1.000100
32000.0	288.2	-44.5	-48.9	61.0	439.1	589.1		280.7	35.9	1.000098
32500.0	281.7	-45.7	-50.7	56.1**	431.4	587.6		279.0	36.1	1.000096
33000.0	275.3	-46.9	-53.7	45.3**	423.9	586.0		277.4	36.1	1.000095
33500.0	269.0	-48.2	-57.1	34.4**	416.6	584.3		275.8	35.8	1.000093
34000.0	262.9	-49.5	-61.1	23.6**	409.4	582.7		274.5	35.4	1.000091
34500.0	256.9	-50.7	-66.7	12.8**	402.3	581.0		273.8	34.5	1.000090
35000.0	251.0	-52.0	-80.1	1.9**	395.4	579.4		273.2	33.8	1.000088
35500.0	245.2	-53.1			388.1	577.9		273.1	33.2	1.000086
36000.0	239.4	-54.2			381.0	576.4		273.7	33.8	1.000085
36500.0	233.8	-55.3			373.9	575.0		273.9	37.1	1.000083
37000.0	228.3	-56.4			367.0	573.5		277.8	40.4	1.000082
37500.0	223.0	-57.4			360.1	572.2		282.2	43.5	1.000080
38000.0	217.7	-58.1			349.5	573.9		286.0	46.8	1.000078
38500.0	212.6	-55.1			339.6	575.2		289.8	49.9	1.000076
39000.0	207.5	-56.1			333.1	574.0		293.4	53.1	1.000074
39500.0	202.6	-57.1			326.7	572.7		296.7	54.9	1.000073
40000.0	197.8	-58.2			320.6	571.2		299.9	56.1	1.000071
40500.0	193.1	-59.0			314.1	570.1		302.1	56.1	1.000070
41000.0	188.5	-58.5			305.9	570.8		303.4	54.8	1.000068
41500.0	184.0	-58.3			298.4	571.0		304.1	52.9	1.000066
42000.0	179.6	-58.6			291.6	570.6		303.7	50.4	1.000065
42500.0	175.3	-58.9			285.1	570.2		302.2	48.9	1.000063
43000.0	171.1	-59.2			278.6	569.8		298.7	49.5	1.000062

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.00 FEET MSL  
5 JAN. 80 1104 HRS MST  
ASCENSION NO. 7

UPPER AIR DATA  
005002007  
WHITE SANDS

GEODETIC COORDINATES  
32.40043 LAT DEG  
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
43500.0	167.0	-59.5	-59.5	272.3	569.4	295.4	50.4	1.000061
44000.0	163.0	-59.8	-59.8	266.2	569.0	292.3	51.8	1.000059
44500.0	159.1	-60.2	-60.2	260.2	568.6	289.7	53.1	1.000058
45000.0	155.3	-60.5	-60.5	254.3	568.2	291.8	49.9	1.000057
45500.0	151.6	-60.8	-60.8	248.6	567.7	294.0	46.7	1.000055
46000.0	147.9	-61.1	-61.1	243.0	567.3	296.6	46.8	1.000054
46500.0	144.3	-61.5	-61.5	237.5	566.8	299.2	47.3	1.000053
47000.0	140.8	-61.8	-61.8	232.2	566.3	301.3	47.3	1.000052
47500.0	137.4	-62.2	-62.2	227.0	565.8	303.0	47.0	1.000051
48000.0	134.1	-62.9	-62.9	222.1	564.9	304.4	46.0	1.000049
48500.0	130.8	-63.6	-63.6	217.5	563.9	305.0	43.7	1.000048
49000.0	127.8	-64.4	-64.4	213.0	562.9	305.7	41.3	1.000047
49500.0	124.5	-64.8	-64.8	208.2	562.3	304.2	40.3	1.000046
50000.0	121.5	-64.8	-64.8	203.1	562.3	302.6	39.3	1.000045
50500.0	118.5	-64.9	-64.9	198.1	562.3	301.7	39.3	1.000044
51000.0	115.6	-64.9	-64.9	193.3	562.2	301.0	39.9	1.000043
51500.0	112.7	-64.9	-64.9	188.6	562.2	300.4	40.5	1.000042
52000.0	110.0	-65.2	-65.2	184.2	561.8	299.6	41.3	1.000041
52500.0	107.3	-65.5	-65.5	179.9	561.4	299.0	42.2	1.000040
53000.0	104.6	-65.9	-65.9	175.8	560.9	298.9	42.1	1.000039
53500.0	102.0	-66.2	-66.2	171.8	560.4	299.3	41.6	1.000038
54000.0	99.5	-66.6	-66.6	167.8	559.9	299.7	41.3	1.000037
54500.0	97.1	-67.0	-67.0	164.0	559.3	300.6	41.8	1.000037
55000.0	94.7	-66.7	-66.7	159.7	559.8	301.5	42.3	1.000036
55500.0	92.3	-65.9	-65.9	155.2	560.9	300.1	41.7	1.000035
56000.0	90.1	-65.0	-65.0	150.8	562.0	298.0	40.7	1.000034
56500.0	87.8	-64.2	-64.2	146.5	563.1	297.3	39.1	1.000033
57000.0	85.7	-64.4	-64.4	142.8	563.2	298.9	36.4	1.000032
57500.0	83.6	-64.4	-64.4	139.5	562.9	301.0	33.8	1.000031
58000.0	81.5	-64.6	-64.6	136.2	562.6	306.5	31.5	1.000030
58500.0	79.6	-63.5	-63.5	132.2	564.1	312.8	29.5	1.000029
59000.0	77.6	-62.3	-62.3	128.3	565.6	315.7	26.8	1.000029
59500.0	75.7	-61.2	-61.2	124.5	567.1	317.2	23.5	1.000028
60000.0	73.9	-61.8	-61.8	121.8	566.4	318.9	20.6	1.000027
60500.0	72.1	-62.4	-62.4	119.2	565.6	320.7	18.8	1.000027
61000.0	70.4	-63.0	-63.0	116.6	564.8	322.8	17.0	1.000026
61500.0	68.7	-63.6	-63.6	114.1	564.0	323.1	17.6	1.000025
62000.0	67.0	-64.1	-64.1	111.6	563.2	323.0	18.6	1.000025
62500.0	65.3	-64.7	-64.7	109.2	562.4	323.3	19.4	1.000024
63000.0	63.7	-65.3	-65.3	106.8	561.6	324.0	19.9	1.000024

STATION ALTITUDE 3989.00 FEET MSL		UPPER AIR DATA		GEODETIC COORDINATES	
5 JAN. 80		0050020007		32.40043 LAT DEG	
ASCENSION NO. 7		WHITE SANDS		106.37033 LON DEG	

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
63500.0	62.2	-65.9			104.5	560.9	324.7	20.4	1.000023
64000.0	60.6	-66.5			102.2	560.1	326.0	19.0	1.000023
64500.0	59.2	-66.1			99.5	560.6	327.8	17.0	1.000022
65000.0	57.7	-64.5			96.4	562.7	327.9	15.2	1.000021
65500.0	56.3	-62.9			93.3	564.9	316.1	14.7	1.000021
66000.0	54.9	-61.3			90.3	567.0	304.0	14.0	1.000020
66500.0	53.6	-60.4			87.8	568.2	302.2	13.9	1.000020
67000.0	52.3	-59.7			85.4	569.1	309.8	11.8	1.000019
67500.0	51.1	-59.1			83.1	570.0	320.5	9.9	1.000019
68000.0	49.9	-58.6			80.9	570.7			1.000018
68500.0	48.7	-59.1			79.2	570.0			1.000018
69000.0	47.5	-59.6			77.5	569.4			1.000017

STATION ALTITUDE 3989.00 FEET MSL  
 5 JAN. 80  
 ASCENSION NO. 7  
 1104 HRS MST  
 MANDATORY LEVELS  
 0050020007  
 WHITE SANDS  
 GEODETIC COORDINATES  
 32.40043 LAT DEG  
 106.37033 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	5069.	6.5	-8.2	34.	9999.0	9999.0XX	
800.0	6705.	7.9	-14.3	19.	9999.0	9999.0XX	
750.0	8445.	6.2	-16.0	19.	292.8	13.6	
700.0	10288.	3.2	-21.7	14.	292.6	12.3	
650.0	12248.	.3	-18.4	23.	289.2	14.0	
600.0	14341.	-2.8	-20.7	24.	285.5	19.6	
550.0	16587.	-6.9	-24.8	22.	278.6	23.2	
500.0	19003.	-12.5	-26.1	31.	286.0	22.9	
450.0	21614.	-18.6	-28.2	42.	293.1	28.2	
400.0	24455.	-26.2	-29.9	71.	279.9	33.4	
350.0	27572.	-34.1	-37.3	73.	290.5	34.7	
300.0	31054.	-42.5	-47.0	61.	282.7	34.2	
250.0	35012.	-52.2			273.2	33.7	
200.0	39679.	-57.6			298.3	55.5	
175.0	42432.	-58.9			302.1	48.9	
150.0	45591.	-60.9			295.0	46.5	
125.0	49280.	-64.8			304.5	40.5	
100.0	53738.	-66.5			299.5	41.3	
80.0	58195.	-63.8			310.9	30.1	
70.0	60900.	-63.1			323.1	16.8	
60.0	63985.	-66.7			326.6	18.3	
50.0	67687.	-58.5					

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.